PRU-103US PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No:

To Be Assigned

Applicant:

Kevin K. Lehmann et al.

Filed:

Herewith

Title:

TAPERED FIBER OPTIC STRAIN GAUGE USING CAVITY RING-DOWN

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SPECTROSCOPY

TC/A.U.: Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (R&P) submitted herewith.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Under 37 C.F.R. § 1.98(d), copies of the patents and publications listed on the enclosed PTO Form 1449 are not required to be provided, because they were cited by or submitted to the Patent and Trademark Office in prior application Serial No. 10/157,400, filed May 29, 2002, which is relied upon for an earlier filing date under 35 U.S.C. § 120. We are enclosing a copy of two references which were not previously cited or submitted to the Patent and Trademark Office in application number 10/157,400.

This Information Disclosure Statement is being filed concurrently with the abovereferenced application.

Respectfully sulpmitted,

Jacques L. Etkowicz, Reg. No. 41,738

Attorney for Applicants

JLE/gb

Enclosures: PTO Form 1449

(2) References Transmittal Form

Dated: August 20, 2003

P.O. Box 980

Valley Forge, PA 19482-0980

(610) 407-0700

☑ P.O. Box 980 Valley Forge, PA 19482 (610) 407-0700

P.O. Box 1596 Wilmington, DE 19899 (302) 778-2600

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Kathleen L/pby

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Substitute for Form 1449A/PTO		Complete if Known
	Application Number	To be Assigned
INFORMATION DISCLOSURE	Filing Date	Herewith
STATEMENT BY APPLICANT	First Named Inventor	Kevin K. Lehmann et. al.
(Use as many sheets as necessary)	Art Unit	Unknown
	Examiner Name	Not Yet Assigned
SHEET 1 of 4	Attorney Docket No.	PRU-103US

			U.S. PATENT D	OCUMENTS	
Examiner Initials*	Cite	Document Number Number - Kind Code ^{2 (if known)}	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan
111101015	100.				Figures Appear
		US-1,719,443	07/02/1929	Nitchterlein	Entire Document
	ļ	US-3,402,364	09/17/1968	De Lang	Entire Document
		US-3,711,788	01/16/1973	Forkner	Entire Document
		US-3,976,368	08/24/1976	McCann et. al.	Entire Document
		US-3,982,203	09/21/1976	De Wit	Entire Document
		US-4,161,436	07/17/1979	Gould	Entire Document
	1	US-4,525,034	06/25/1985	Simmons	Entire Document
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		US-5,267,548	01/04/1994	Margalith	Entire Document
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		US-5,912,740	6/15/1999	Zare et. al.	Entire Document
		US-5,973,864	10/26/1999	Lehmann et. al.	Entire Document

		FOREIGN PA	TENT DOCUMEN	TS			
		Foreign Patent Document			of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No.1	Country Code ³ - Number ⁴ - Kind Code ^{5 (If known)}	Publication Date (MM-DD-YYYY)		icant of Cited Document	Passages or Relevant Figures Appear	T6
		63013386	01/20/1988	Japar Only)	(Abstract	Entire Document	
		DE19814575	10/07/1999	Germ	any	Entire Document	
		WO93/07469	04/15/1993	PCT		Entire Document	
		EP 1195582	04/10/2002	EPO		Entire Document	
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			U.S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number - Kind Code ^{2 (if known)}	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	 	US-6,097,555	08/01/2000	Lehmann et. al.	Entire Document
	1	US-6,172,823	01/09/2001	Lehmann et. al.	Entire Document
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		Examiner Name	Not Yet Assigned	
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		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
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		Stewart G. Atherton K, Yu H, Culshaw B. "An investigation of an optical fibre amplifier loop for intracavity and ring-down cacity loss measurements." <i>Meas. Sci. Technol.</i> 12: 843-849 (2001).	
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	•	Francisco J. Arregui et. al., "Optical Fiber Strain Gauge Based on a Tapered Singlel-Mode Fiber," pages 90-96, July 26, 1999, Sensors and Actuators 70 (2000).	
	ſ	Shankar, PM; Bobb, LC; Krumboltz, HD. "Coupling of modes in bent biconically tapered single-mode fibers." Journal of Lightwave Technology, 9 (7): 832-837 July 1991.	
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